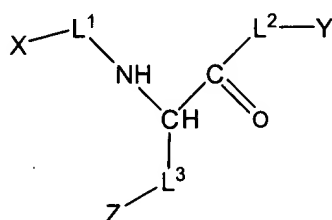


This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

- 1                    1.        (Previously presented) A heterofunctional crosslinking reagent having  
2        the formula:



3        wherein

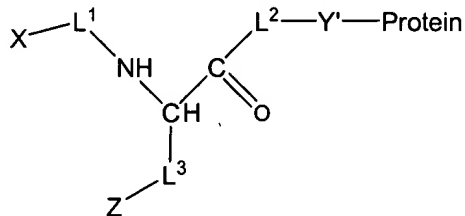
4                 $\text{L}^1$  and  $\text{L}^2$  are each independently selected from the group consisting of a bond, a  
5                substituted or unsubstituted ( $\text{C}_2\text{-C}_{24}$ ) alkylene group, a substituted or  
6                unsubstituted ( $\text{C}_2\text{-C}_{24}$ ) heteroalkylene group, a polyethyleneglycol group, a  
7                polyalcohol group, a polyamine group, a polyester group and a  
8                polyphosphodiester group;

9                 $-\text{L}^3\text{-Z}$  is an optionally protected amino acid side chain having a pendant reactive  
10                group, said reactive group selected from the group consisting of lysine,  
11                cysteine, serine, aspartic acid, glutamic acid, and threonine;

12                X is a non-covalent protein tag binder that specifically binds to a protein tag portion  
13                of a protein; and

14                Y is a photoactivatable covalent crosslinking group adapted to covalently link the  
15                heterofunctional crosslinking reagent at or adjacent to said protein tag, said  
16                said photoactivatable covalent crosslinking group is a member selected from  
17                the group consisting of aryl ketones, azides, diazo compounds, diazirenes, and  
18                ketenes.

1                2.-4.    (Canceled)



16                   group covalently attached at or adjacent to said protein tag **portion of said**  
17                   **protein**, said photoactivatable covalent crosslinking group is a member  
18                   selected from the group consisting of aryl ketones, azides, diazo compounds,  
19                   diazirenes, and ketenes.

1                   27.-77. (Canceled)

1                   78.     (Previously presented) A heterofunctional crosslinking reagent of  
2                   claim 1, wherein X is an antibody or antibody fragment.